

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 2/06/2012

Control	0069-07-099
Project	NH 2012(294)
Highway	US 87
County	TOM GREEN

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: NH 2012(294)

CONTROL: 0069-07-099

COUNTY: TOM GREEN

LETTING: 02/08/2012

REFERENCE NO: 0206

PROPOSAL ADDENDUMS

_ PROPOSAL COVER

_ BID INSERTS (SH. NO.:

X GENERAL NOTES (SH. NO.: A through M

_ SPEC LIST (SH. NO.:

_ SPECIAL PROVISIONS:

ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: See changes outlined below

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

General Notes

Sheet A through Sheet J replaced due to various changes

Items have shifted due to various changes.

Deleted Sheet K through sheet M

Plan Set

Revised sheet 2.

Replaced sheets 14, 14A through 14D

Deleted sheet 14E and 14F

Project Number: NH 2012(294)

Sheet

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BASIS OF ESTIMATE

Item No.	Description	Usage	Area	Rate	Estimated Quantity
310	Prime Coat	Flexible Base	49,045 SY	0.20 GAL/SY	9,809 GAL
#314	Emulsified Asphalt Treatment	Edge Seal	11,065 SY	0.20 GAL/SY	553 GAL asphalt 1,660 GAL water
316	Surface Treatments	Asphalt	36,093 SY	0.42 GAL/SY	15,159 GAL
316	Surface Treatments	Aggregate	36,093 SY	120 SY/CY	302 CY
344	Performance-Designed Mixtures	Base Course	23,309 SY	275 LB/SY	3,205 TON
344	Performance-Designed Mixtures	Surface Course	333,269 SY	165 LB/SY	27,496 TON

Quantity is shown for Contractor's information only (not a pay item).

**SUMMARY OF SURFACING AREAS
(SQUARE YARDS)**

Item No.	310	316	344	344	354
Description	Prime Coat	Surface Treatments	PRF- DSGN-MX SP-B PG64-22	PRF- DSGN-MX SP-C PG70-22	Planing and Texturing Pavement
Main Lanes	49,045	21,032	23,309	333,269	103,141
Main Lane shoulders		15,061			
Total Area	49,045	36,093	23,309	333,269	103,141

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GENERAL NOTES

The following Standard Sheets have been modified: NONE.

Signs, markings, delineators and signals conform to details shown on the plans, the TMUTCD, the Compliant Work Zone Traffic Control Device List (CWZTCDL), the Department's Standard Sheets, "Standard Highway Sign Designs for Texas" and "Sign Crew Field Book." These publications are available from the Department's Traffic Operations Division.

Locate the project bulletin board at an approved location within the project limits such as at a field office, staging area, or stockpile, and make accessible to the public at all times. Do not remove the bulletin board from the project until approved.

Moving, but non-mobile operations such as removal of raised pavement markers, planing, and paving will proceed in the direction of traffic unless otherwise directed by the Engineer.

In those instances where fixed features require, vary the governing slopes indicated in these plans from within the limits to the extent determined.

If Contractor elects to establish a pit within 200 ft. of a public road, construct a barrier or other device in accordance with Natural Resources Code, Chapter 133, and Section 133.041.

Do not use salt water with solids in excess of 10,000 parts per million, as determined by evaporation.

All motor vehicle equipment having an obstructed view to the rear shall have a reverse signal alarm audible above the surrounding noise level.

Item 2, "Instructions to Bidders"

For questions call:

Donald A. Peterson, P.E.
San Angelo Area Engineer
2802 Armstrong
San Angelo, Texas 76903
(325) 486-3801
Donald.Peterson@txdot.gov

Item 5, "Control of the Work"

Responsibility for construction surveying shall conform to Article 5.6.C, "Method C."

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Make suitable advance notification to affected non-participating municipalities regarding Class B underground facilities, call the Department's San Angelo District Traffic Office at telephone number (325) 947-9208 to have the Department's existing traffic signal and illumination utilities located, and call the Department's San Angelo District Landscape Architect's Office at telephone number (325) 947-9236 to have the Department's existing irrigation utilities located.

Item 7, "Legal Relations and Responsibilities"

Railroad protective liability coverage is required.

Item 9, "Measurement and Payment"

Provide a conversion rate for units of payment for work subcontracted to disadvantaged business enterprises if units of payments differ from those shown on the plans.

The progress payment period shall end two working days before the last working day of the month. Deliver invoices to be paid as material on hand on or before the end of the progress payment period.

Item 134, "Backfilling Pavement Edges"

Use reclaimed asphalt pavement (RAP) salvaged from this project to backfill pavement edges. Add emulsified asphalt to the RAP before compacting. The emulsified asphalt shall be a type, grade, and rate acceptable to the Engineer. Emulsified asphalt added to RAP for backfilling pavement edges will not be measured and paid separately. If insufficient RAP is available, then substitute flexible base of a type and grade acceptable to the Engineer to backfill pavement edges, at no additional cost to the State.

Item 302, "Aggregates for Surface Treatments"

Stockpile aggregates separately and label stockpiles with project number, material type, and grade.

The target value for the desired percent by weight of residual bitumen coating on the aggregate is 1.2%.

Item 310, "Prime Coat"

If planing operations expose base material:

1. Refinish exposed base material. This work will not be measured or paid for separately, but will be considered as included in payment for Item 310.
2. Place prime coat on refinished base material in accordance with Item 310.

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3. Place one-course surface treatment on primed base material in accordance with Item 316.

Refinish material that does not receive prime coat within one working day following acceptance of flexible base.

Item 314, "Emulsified Asphalt Treatment"

Apply a 3 ft. wide strip of emulsified asphalt at a rate of 0.20 gallons per square yard as an edge seal along each pavement edge. Lap the pavement edge seal onto the pavement a maximum of 6 in. Dilute the emulsion 3 parts water to 1 part emulsion. This item will be considered as included in payment for Item 134.

Item 316, "Surface Treatments"

Cover or protect railings, bridge joints, utility covers, railroad crossings, and exposed concrete such as curbs, bridge approach slabs, bridge decks, sidewalks and concrete pavement.

Do not place wet aggregate.

Use medium pneumatic rollers that meet the requirements of Item 210, "Rolling."

Item 320, "Equipment for Asphalt Concrete Pavement"

Provide production equipment that ensures a uniform continuous production rate of at least 150 tons per hour.

A Type D Structure is required.

Item 344, "Performance-Designed Mixtures"

Liquid antistripping agents are not allowed.

Do not dump and reload hot mix asphalt.

Should the paving operation stop three times in one day due to equipment malfunction or mixture flow interruption, the Engineer may require the Contractor to immediately suspend operations until the next working day.

Hauling equipment is subject to weight verification.

If a limestone material source is used, add a minimum of 1% lime conforming to the requirements of Item 301, "Asphalt Antistripping Agents." Testing in accordance with method Tex-530-C is waived.

Unless otherwise directed by the Engineer, a tack coat is required.

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Design the mixture with design number of gyrations (N_{design} or N_{des}) equal to 50 gyrations. The design number of gyrations may be adjusted within a range of 35 to 100 gyrations when approved by the Engineer.

Verify stone-on-stone contact using the method given in the Superpave design procedure in Tex-204-F, Part IV.

Item 354, “Planing and Texturing Pavement”

Remove and dispose of existing raised pavement markers, jiggle bars, and traffic buttons before planing.

Mark and saw cut straight lines at the boundaries of planed areas. Do not saw cut pavement until the lines are approved.

Take measures to prevent reclaimed asphalt pavement (RAP) from entering existing storm drain grates and inlets.

All reclaimed asphalt pavement (RAP) not incorporated into the project shall become the property of the State.

Furnish, install, and maintain temporary sediment control fence around the stockpile of reclaimed asphalt pavement (RAP) material at all times. When the existing RAP stockpile is enclosed by temporary sediment control fence, remove and replace fencing as necessary to add or remove RAP. Leave fencing in place at the conclusion of the project. This shall be measured and paid for as Item 506, “Temporary Erosion, Sedimentation, and Environmental Controls.”

Item 421, “Hydraulic Cement Concrete”

Provide sulfate-resistant concrete, containing Type II cement, for all concrete identified as structural concrete in Table 5, except precast beams and precast panels.

Provide all items listed in 421.3.C, “Testing Equipment” with the exception of strength-testing equipment.

Entrained air is required in all slip formed concrete, but is not required for other structural concrete. Adjust the dosage of air entraining agent for low air content as directed by the Engineer. If entrained air is provided where not required, only the upper limits of the applicable Special Provision will be enforced.

Item 427, “Surface Finishes for Concrete”

Provide rub finish to Surface Area I.

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Item 502, "Barricades, Signs and Traffic Handling"

Furnish regulatory speed limit signs. The Engineer will determine placement locations and will provide supervision to the Contractor in placing, removing and replacing these signs. The construction speed zones are as follows:

highway	begin reference marker	end reference marker	existing speed limit (mph)	work zone speed limit (mph)
US 87	468+0.000	468+0.944	40	30
US 87	470+0.475	472-0.300	50	40
US 87	472-0.300	472+0.161	60	50
US 87	472+0.161	472+1.324	65	55
US 277	390+12.293	390+12.793	65	55

Shadow, lead, trail, and ramp control vehicles shown on the plans are required.

Traffic control devices denoted with the triangle symbol on the plans may be omitted.

Use high level warning flags on advance warning signs during daytime operations.

Provide flaggers at such times and locations as directed to ensure the safe passage of traffic through construction areas. When flaggers are used to control traffic, use signs CW20-7a "FLAGGER AHEAD" and CW20-70b "BE PREPARED TO STOP". Flaggers shall use 24 in. STOP/SLOW paddles.

Remove Type III barricades and plastic drums upon depletion of a stockpile. At Contractor's option, place these items near the fence line.

Install orange plastic construction fencing around the perimeter of trenches and excavations to remain open at night, and at other locations shown on the plans or as directed. Construction fence shall be orange plastic, highly visible, 4 ft. high, and as approved. Construction fence supports shall be steel t-posts with safety caps, wooden posts having minimum dimension of 1 1/2 in, or plastic drums. Embed steel or wooden posts sufficiently as directed. Steel or wooden supports shall extend to top of construction fence. Attach construction fence to supports sufficiently as directed. Do not exceed 8 ft. between supports. Do not use steel reinforcing bars as supports for construction fence.

As directed, furnish and install signs R9-8 "PEDESTRIAN CROSSWALK", R9-9 "SIDEWALK CLOSED", R9-10 "SIDEWALK CLOSED USE OTHER SIDE", R9-11 "SIDEWALK CLOSED AHEAD CROSS HERE", and R9-11a "SIDEWALK CLOSED CROSS HERE." Mount these signs on barricades or sign supports as directed. Place other additional appropriate warning or protective devices as directed for pedestrian safety.

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Prior to each work day, make provisions to exclude vehicles from parking within work areas.

In addition to providing a Contractor's Responsible Person and a phone number for emergency contact, have employee(s) available to respond on the project for emergencies and for taking corrective measures within 30 minutes.

Item 504, "Field Office and Laboratory"

Asphalt content will be determined by the ignition method.

Item 533, "Shoulder Texturing"

Shoulder texturing shall conform to the details shown on standard sheet RS(1)-10, Option 1: continuous milled depressions (rumble strips).

Perform shoulder texturing prior to placement of final edge line pavement markings.

Item 585, "Ride Quality for Pavement Surfaces"

Schedule 2 from Table 1 will be used to determine the level of bonus or penalty for each 0.1-mi. section on the project

Item 618, "Conduit"

Where PVC, duct cable, and HDPE conduit 1 in. diameter and larger is allowed and installed as per Department standards, optionally provide PVC elbows in place of the galvanized rigid metal elbows required by the Electrical Details standard sheets. Provide PVC elbows of the same schedule rating as the conduits to which they connect. Use only a flat, high tensile strength polyester fiber pull tape for pulling conductors through the PVC conduit system that uses PVC elbows.

Secure permission from the proper authority before cutting into or removing any walks or curbs.

Install conduit under existing pavement by an approved boring method unless otherwise directed. Do not construct boring pits within 2 ft. of the edge of the pavement unless otherwise directed. When conduits are bored, the vertical and horizontal tolerances shall not exceed 18 in. as measured from the intended target point.

Do not use a pneumatically driven device for punching holes beneath the pavement, commonly known as a "missile."

Install a pull rope in conduit runs in excess of 60 ft.

Furnish and install duct seal at ends of conduits.

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Optionally substitute HDPE conduit meeting the requirements of Item 622, "Duct Cable" for bores requiring PVC Schedule 40 and Schedule 80 conduit when approved. HDPE shall be the same size as the PVC conduit shown on the plans. No additional compensation will be paid when HDPE is substituted for this purpose.

Install a continuous bare or green insulated copper wire number 8 AWG or larger in every conduit throughout the electrical system in accordance with the electrical detail sheets and the NEC.

Item 620, "Electrical Conductors"

Grounding conductors that share the same conduit, junction box, ground box or structure shall be bonded together at every accessible point in accordance with the NEC.

Item 644, "Small Roadside Sign Supports and Assemblies"

Where foundations protrude through riprap or other concrete areas, wrap the foundation with 1/4-in. thick bituminous fiber sheets before placing concrete or repairing the concrete area. Bituminous fiber sheet tubes may be used for forming sign foundations instead of removable forms and shall be left in place below the finished concrete or riprap surface. Neatly trim the bituminous fiber sheets flush with the finished surface after the concrete has cured.

Drill and pour small roadside sign foundations on the same day or suitably cover the drilled hole.

Signs indicated to be mounted on the back of another sign or on a traffic signal pole or mast arm may require punch spacing different from that shown on the Standard Sheets. Adjust punch spacing on affected signs.

Cover each unfinished sign base with a reflectorized traffic cone.

Furnish and install 12 in. by 12 in. Type C reflective sheeting with pressure sensitive backing on sign posts. Sign post sheeting shall be fluorescent yellow for all signs except for signs R1-2 "YIELD", R5-1 "DO NOT ENTER", and R1-1 "STOP", on which sign post sheeting shall be red. Mount sign post sheeting on the side facing traffic, at a height of 4 ft above the edge of paved surface. For signs with I-beams, provide four strips of 12 in. high by 2 in. wide sign post sheeting per post.

Materials determined salvageable shall remain property of the Department. Deliver to the Department's maintenance section which has responsibility for the project area.

Item 662, "Work Zone Pavement Markings"

Do not use temporary flexible-reflective roadway marker tabs to delineate stop bars, crosswalks, symbols, or words.

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Item 666, “Reflectorized Pavement Markings”

Place glass beads for pavement markings in accordance with the following table:

Marking Types	Glass Bead (Double Drop) Types	Glass Bead Rates	
		Surface Treatment	Asphalt Concrete Pavement, Microsurfacing, Concrete Pavement
TY I markings	Type II	12 LB per 100 SF	6 LB per 100 SF
	Type III	12 LB per 100 SF	6 LB per 100 SF

Item 666, “Reflectorized Pavement Markings”, Item 8251, “Reflectorized Pavement Markings with Retroreflective Requirements”

The striping speed shall not exceed 5 MPH during application. Convert to gravity-flow beadheads (if not in use) to obtain optimum bead application, when directed.

Clean striping tanks before use if there is a build-up of dry paint, as directed. Flush lines and guns before use.

Reference existing markings before performing work that disturbs the markings, so that the markings can be re-established.

Provide a double-drop of Type II and Type III glass beads.

Item 688, “Pedestrian Detectors and Vehicle Loop Detectors”

Identify each detector cable as shown on the plans with permanent marking labels using a double-tie strap label at each ground box, pole base and controller.

Install detector loops during off-peak traffic periods, as determined by Engineer.

Multiple detector loops may share the same ground box for connection to the loop lead-in cable.

Multiple detector loops that are to be connected to the same detector unit may share the same saw cut from the roadway to the ground box. Make these saw cuts a minimum of 6 in. from other lead-in saw cuts.

Detector loop wires shall have three complete turns in the loop.

Ground shields are required on detector cables at the controller only. Run detector cables continuously without splices from curbside ground boxes to the controller.

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Item 3213, “Diamond Grinding and Grooving Pavement”

Perform full-width diamond grinding for payment at the beginning and ending points of paving, where abutting concrete bridge decks or approach slabs, where abutting ends of concrete pavement, and other locations as directed. Typical diamond grinding length shall be 100 ft. This work will not be required at those locations where Engineer determines that ride quality is acceptable.

Upon completion of the diamond grinding, apply two coats of asphalt sealer that meets the following specifications: Federal Specification RP-335e and ASTM Specifications D-5727 and D-3320.